

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/919,344

DATE: 08/08/2001
TIME: 11:04:21

Input Set : A:\543.app.txt
Output Set: N:\CRF3\08082001\I919344.raw

ENTERED

4 <110> APPLICANT: Pyle, Ruth A.
5 Xu, Jiangchun
7 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
8 AND DIAGNOSIS OF PANCREATIC CANCER
12 <130> FILE REFERENCE: 210121.543
14 <140> CURRENT APPLICATION NUMBER: US/09/919,344
15 <141> CURRENT FILING DATE: 2001-07-30
17 <160> NUMBER OF SEQ ID NOS: 32
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 888
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
26 <220> FEATURE:
27 <221> NAME/KEY: misc_feature
28 <222> LOCATION: 663, 668, 743, 748, 749, 784, 786, 803, 820, 823, 832, 862,
29 878
30 <223> OTHER INFORMATION: n = A,T,C or G
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35 aattctttat actttaaaaa ctataaatat atttgaggat cagcacagta atgccaaca 180
36 atattgtttt taaacaaaaa atgtaaacat tcaaaagaat ctctctaaat cactgattaa 240
37 atcatttgac tgaaaacaag ctctctctct tattatttgt tactgagtca ttcaccttta 300
38 ttatacaggt atatttatga atattatatac aaaatagcta catcatttgg cttcataata 360
39 ggaataaaga cttacctaaa atgggtgaca acattcatct ggctaagaaa tgaaagtaca 420
40 aaggaccctg gcctccgata actctctctt ataagataac tgccagactt ccctgcctgc 480
41 ctgaggcggt cttctgctat cgttctgtca agttttccgt gataccacct aagggaataa 540
42 cagagaagat attacaatat aaatagcaag tgcagaattt ctatggacac ttgaaaaaca 600
43 tactactaga gggtttaaat gcctacatgt aacttaaca ttacatttt actctgaacc 660
W--> 44 agttatttca attttaactc aatttacctc agtctcaaaa aaaactcatt tacttgggct 720
W--> 45 ttaatttggc ctaaaagctc agtctcaaaa atctcatata taaactcctt cctttttacc 780
W--> 46 catcttctac ttcaggatgg cgttttcaaa ataacctcga acncaattct tnaaataaag 840
W--> 47 atgccatggg ggtattctcc cttttttgga ccgatacctg gcgggcct 888
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 1118
51 <212> TYPE: DNA
52 <213> ORGANISM: Homo sapiens
54 <220> FEATURE:
55 <221> NAME/KEY: misc_feature
56 <222> LOCATION: 44, 76, 81, 139, 141, 369, 374, 422, 425, 482, 551, 557,
57 562, 604, 612, 623, 673, 685, 699, 700, 707, 709, 720, 726, *OK*
58 727, 745, 762, 766, 767, 784, 793, 803, 814, 819, 832, 834,
59 847, 851, 865, 867, 868, 884, 889, 899, 901, 902, 903
60 <223> OTHER INFORMATION: n = A,T,C or G
62 <221> NAME/KEY: misc_feature
63 <222> LOCATION: 904, 905, 909, 911, 912, 921, 950, 973, 986, 992, 993, 997,

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64 1007, 1008, 1011, 1012, 1014, 1017, 1018, 1023, 1024, 1031, *OK*

65 1032, 1033, 1035, 1054, 1055, 1062, 1063, 1065, 1080, 1083

66 <223> OTHER INFORMATION: n = A,T,C or G

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W--> 71 ccacgtgccg gggctccana naccacgccc gaaacaccaa ataaatcaca gacgtgacaa 180
72 ttgcgggagg agcatgaatc agctgttctt tcgggaggag aaaaaggaaa caacaatcag 240
73 aggcttttga atgcttttct ttcattgtgc tggaacgctg ggcgggagggt gaccgggggc 300
74 tcggagcccc accctggcca cactgtctgt cggccacggg gtctctacgg tggggaccca 360
W--> 75 ggtccacna cggntcccaa cctgtggagc tgtgtgcgca gccaccacca ctgcgccctc 420
W--> 76 ahaahagggg cggggagccc tggttctcaa actccgacca ggcgtcattc agctccatga 480
W--> 77 anacatctt ggcgtgctgc tctacgggt gcccgcacc ttgtcggggt gcacggccag 540
W--> 78 caccggggcg hgatagngct ttttcttgc tccggacccc aggtcggcca tttccacggg 600
W--> 79 cgttcagggg gnttttcccc gthccaaaa aactgtgtt caacggggga caagcaaggg 660
W--> 80 ccccgggatg tthcccttcc tttgnccttc aattcccann cccagggaac cttttaaacn 720
W--> 81 tttgahggg gggggccccc ggtttttttt aaacccaagg gncctnnngg ttttccccc 780
W--> 82 aaantttttg gnaaaaagg ggtttttttt gggncctctt tttttttttt tnaaaaaac 840
W--> 83 ttgggagggg naaaaaaccc cttttttttt ggggaacaaa ccaaaaaant ttttaaaang 900
W--> 84 nnnntttttt nnaaaaaaaa nttttgggtt ttttgaac aaaaaattt gggggggggg 960
W--> 85 gggaaacccc cctttttttt ttgggncceg gnaaaantt aaatttngg nnaantthgc 1020
W--> 86 tthtttttcc nntttttttg ggggggtttt tttthggggg gnnanaaac cctctctttt 1080
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89 <210> SEQ ID NO: 3

90 <211> LENGTH: 974

91 <212> TYPE: DNA

92 <213> ORGANISM: Homo sapiens

94 <220> FEATURE:

95 <221> NAME/KEY: misc_feature

96 <222> LOCATION: 553, 592, 630, 656, 684, 686, 739, 770, 794, 807, 814, 821,

97 841, 849, 861, 876, 892, 924, 956, 963 *OK*

98 <223> OTHER INFORMATION: n = A,T,C or G

100 <400> SEQUENCE: 3

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102 ccaactgcgac ctagegcgcg cgcgcgcggg gcccaatgcc ggtcatgcc attccgcggc 120
103 ggggtgcgctc ctccacggc cgcacacca cctgcctgca tgcggcctgc gggcccgctc 180
104 gcgcctccca cctggcccgc accaagtaca acaacttoga cgtgtacatc aagacgcgct 240
105 ggctgtacgg ctcatccgc ttcctactct actttagctg cagcctgttc actgcggcgc 300
106 tctgggggtgc gctggcgcgc ctcttctgcc tacagtaoct gggcggttgc gtccgtctgc 360
107 gcttccagcg caagctgtog gtgctgctgc tgcgtctggg cgcgcggcgc gtggaacttc 420
108 gcctggtgaa cgagctgctc gtctatggca tccacgtcac cagcagcatc ttaaaagccc 480
109 caggatatat ctgagatctt atctcacgct gtctccaggt gtctgggggg cccaatgat 540
W--> 110 ggcacagggg cangtgggct ggaaggcgcc aaaatgcctg tgtttaaggg angggtggca 600
W--> 111 ccatggggcc cgagggtctt acccaagaa cccttggtct ttggttctt aaaccttgc 660
W--> 112 aagtcaaccg gggaagcaac ttantggggg gggacctggg cccaattggg ccggtggtgg 720
W--> 113 aacttttttg ggggggccha aaattggggg aaaggggccc ccccttggg aaataaaatg 780
W--> 114 gaaattgggc caannggaac aaaccanngg caanaaagg ttaccacct taataaacca 840
W--> 115 agggaaccnc cagggggggg hgggggacct tggacnaacc ccctaattgg gttaccctcc 900
W--> 116 aaaatccatg gttccccccc ccttttgggg attggggggg gaatttttga ccctancctt 960

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W--> 117 ~~tttgggggaa caaa~~ *OK* 974
119 <210> SEQ ID NO: 4
120 <211> LENGTH: 865
121 <212> TYPE: DNA
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124 <220> FEATURE:
125 <221> NAME/KEY: misc_feature
126 <222> LOCATION: 549, 567, 606, 668, 671, 687, 703, 732, 763, 777, 790, 799, *OK*
127 807, 847, 861
128 <223> OTHER INFORMATION: n = A,T,C or G
130 <400> SEQUENCE: 4
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132 gccttcgcgc accatggagt acctcatcgg tatccaaggc cccgactatg ttcttgctgc 120
133 ctccgaccgg gtggccgccca gcaatattgt ccagatgaag gacgatcatg acaagatggt 180
134 taagatgagt gaaaagatat tactcctgtg tgttgagag gctggagaca ctgtacagtt 240
135 tgcagaatat attcagaaaa acgtgcaact ttataagatg cgaaatggat atgaattgtc 300
136 tcccacggca gcagctaact tcacacgccg aaacctgctg actgtcttcg gactcggacc 360
137 ccatatcatg tgaacctcct cctggctggc tatgatgagc atgaagggcc agcgtgtat 420
138 tacatggact acctgcagcc ttggccaagg ccccttttgc agcccacggc tatggtgcct 480
139 tctgactct cagtatcctc gaccgatac acacaccoga ctatctcacg tgagaaggca 540
W--> 140 gtggaacttc ttaggaaatg tctggan~~gaa~~ ctccagaaac gcttcac~~cct~~ gaatcttgcc 600
W--> 141 acctt~~hagtg~~ ttegaatcat tgacaaa~~at~~ ggcattcatg acctg~~gataa~~ catttccttt 660
W--> 142 ccaaaca~~ngg~~ h~~ttt~~taacat tattgt~~hctc~~ ccttcccctt tgnca~~gggaa~~ cttttttttt 720
W--> 143 gaaggggctc ctttattttt tttctactct tttcaaggcg cctctttttg ataaaa~~ngg~~ 780
W--> 144 ttaattt~~can~~ aaaaaaa~~ng~~ ggaacth~~ttg~~ ggatattaat ttgaaaaaaa aaaaaaaa 840
W--> 145 aaaggg~~ngg~~ cgcgttttaa h~~ttt~~t 865
147 <210> SEQ ID NO: 5
148 <211> LENGTH: 731
149 <212> TYPE: DNA
150 <213> ORGANISM: Homo sapiens
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: 513, 520, 537, 561, 620, 627, 663, 715, 717 *OK*
155 <223> OTHER INFORMATION: n = A,T,C or G
157 <400> SEQUENCE: 5
158 gtgaagttct ttctgttct tttcaccatt gggttctgct gggctcagta ttccccaat 60
159 acacaacaag gacggacatc tattgttcat ctgtttgaat ggcgatgggt tgatattgct 120
160 cttgaatgtg agcgatattt agctccgaag ggatttggag gggttcaggt ctctccacca 180
161 aatgaaaatg ttgcaattta caaccctttc agaccttggg gggaaagata ccaaccagtt 240
162 agctataaat tatgcacaag atctggaaat gaagatgaat ttagaaacat ggtgactaga 300
163 tgtaacaatg ttggggttcg tatttatgtg gatgctgtaa ttaatcatat gtgtggtaac 360
164 gctgtgagtg caggaacaag cagtacctgt ggaagttaact tcaaccctgg aagtagggac 420
165 tttccagcag tcccatattc tggatgggat ttcaatgatg gtaaatgtaa aactggaagt 480
W--> 166 ggagatatcg agaactacaa t~~gat~~gtact cangtcagan aatgtcgtct gactgg~~hctt~~ 540
W--> 167 cttgatcttg cactggagaa g~~ga~~atacctg ccgtctaaga atgccgaata tatgaaccat 600
W--> 168 ctcat~~tgcat~~ tgggtgtcan g~~gg~~tcanctt gatgctttca acccatgtgg gctgga~~acat~~ 660
W--> 169 a~~ang~~caattt ggacaactgc ataactaac aatactgggt cctgcaggaa gtaan~~cttc~~ 720
170 tttcccagaa g 731
172 <210> SEQ ID NO: 6

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173 <211> LENGTH: 848
174 <212> TYPE: DNA
175 <213> ORGANISM: Homo sapiens
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: 522, 537, 547, 596, 622, 682, 704, 708, 747, 755, 775, 828,
180 848
181 <223> OTHER INFORMATION: n = A,T,C or G
183 <400> SEQUENCE: 6
184 ggtcaaaggc ttggcccgtt gccttttccct tcccggcaat actcggttca attaggtctt 60
185 gtccccctcat tatctgtgag gactgaattc ccccccgct tttcaacgca ggctctttgc 120
186 tcgggaaaag tcaaaccatc tctcaaagga tcaaagagct cagccataga cagagccgcc 180
187 ggaggaaaagc ggagtcgctg catcagatga aaggggcccc tcagcctcac tcctcacgcg 240
188 agctcctggtg atcttaaaga cagggtcagg aggatcagga gggacaagag ggatggaggc 300
189 gaaaggctgg atccttaatc caggccggag acaaagccgc gccagggagc tcgcgggcgcg 360
190 cggccccctgt cctccggccc gagatgaatc ctgcggcaga agccgagttc aacatcctcc 420
191 tgccaccgac tcctacaagg ttactcacta taaacaatat ccaccaaca caagcaagt 480
W--> 192 ttattcctac tttgaatgcc gtgaaaagaa gacagaaaac tttcaattaa ggaaggaa 540
W--> 193 atatgaaagaa acagtatttt atgggttgca gtacattctt aataagtact taaaaggaa 600
W--> 194 agtagtaacc aaagagaaaa ttcagggaagc ccaagatgtc tacaagaaac attttccaag 660
W--> 195 atgatgtctt ttaatggaaa atggatggaa ctacattctt tgaacacta ttgaatgggg 720
W--> 196 gattttttcc aatacaaaaa aaaaaanctt gggttcttga aggggggtttt ggtaattttt 780
W--> 197 ccaaaaaggc aaaaagggtt ttttttttcc cccggggggg gaaaaaancc cccccccccc 840
W--> 198 cccccgan 848
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201 <211> LENGTH: 737
202 <212> TYPE: DNA
203 <213> ORGANISM: Homo sapiens
205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: 669, 685, 718, 722
208 <223> OTHER INFORMATION: n = A,T,C or G
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213 catctgtagg agacagagtc accatcactt gccgggogag tcagggcatt agcaattctt 180
214 tagcctggta tcagcagaaa ccagggaagt cccctaagct cctactccat gctgtatcca 240
215 acttggaag tgggggtcca tccaggttca gtggcagtgg atctgggacg gattacactc 300
216 tcaccatcag cagcctgcag cctgaagatt ttgcaactta ttactgtcaa cagtattata 360
217 gtaaccctcc ggtcactttc ggcgagggga ccaaggtgga gatcaaacga actgtggctg 420
218 caccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga actgcctctg 480
219 ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg aaggtggata 540
220 acgccctcca atcggttaac tcccaggaga gtgtcacaga gcaggacagc aaggacagca 600
221 cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa caccaagtct 660
W--> 222 acgctgca aagtcacccc atcaggcct ggagcttcgc cccgtcacaa aaaaagcctt 720
W--> 223 ttaacaaggg gaaaaat 737
225 <210> SEQ ID NO: 8
226 <211> LENGTH: 762
227 <212> TYPE: DNA

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231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: 668, 680, 689, 700, 705, 755, 761 OK
233 <223> OTHER INFORMATION: n = A,T,C or G
235 <400> SEQUENCE: 8
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238 accgcgctgg aggaaggcgc tgcgcggcaa ggagaacaag gggctctgtg aaatcatgag 180
239 aaaggacttg aatgacgccc gggacctgca tggccaggca gagtccagcag ctgcagtgtg 240
240 gaaggacac gtgatggacc gtaggaagaa ggcactgacc gactacaaga agctgcgggc 300
241 cttctttgtg gaggaggagg agcatttcct gcaggaggct gagaaggagg aggggctccc 360
242 tgaggacgag ctggctgacc ccactgagcg gtccagggtca ctgctgcagg cggctctcga 420
243 gctggagaag aagcatcgca acctgggcct cagcatgctg ctgcagtgat ggcgccaacc 480
244 cgtggcagtc ccagagctgg aggcaggagg atggatcctc atctccatgg gaagtgtcag 540
245 cgtgtggctg cagggaagcg tggcaggcgc ctgccttggg tccatctaca tagttgcgtg 600
246 tttcaacaat gtccatttat ccttcaccct gaggcgtgtt ttgggggctg caaacacctc 660
W--> 247 cggtagangc tggacctgang gacctttttc caccttgtgm ccttnccttt cttgaagtcc 720
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251 <211> LENGTH: 846
252 <212> TYPE: DNA
253 <213> ORGANISM: Homo sapiens
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256 <221> NAME/KEY: misc_feature
257 <222> LOCATION: 782, 793, 805
258 <223> OTHER INFORMATION: n = A,T,C or G
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262 ggctccccgg acgcctcgcc ggcccgtcgg ggctggaggc acgggcccac caacgtgaac 120
263 cattacgcca gcaagaagag cgcagccgag agcatgctgg acatcgcgct gctgatggcc 180
264 aacgcgtccc agctgaaggc cgtcgtggaa caggggccca gcttcgcctt ctatgtgccc 240
265 ctggtgggtc tcatctccat ctcccttgtg ctgcagatcg gcgtgggggt gctgctcatc 300
266 ttcccttgta agtacgacct taacaaccog gccaaagcag ccaagctgga cttcctcaac 360
267 aacctggcca cgggcctggt gttcatcatc gtggtagtca acatcttcat cacggccttc 420
268 ggggtccaga agcccttgat ggacatggca cccagcagt aaggacaccc aggacctgg 480
269 atgctgcctg cctgcaact cagctgcccg accccaggag tcgccatacc tgtgaggtgt 540
270 ccacctccct gcacatggca ctaccagac tgccagagcc caggctggcc tcatctgcac 600
271 catgtccccg gaccagccct tgctctgact gcggccaagc accacgcagg aggccactct 660
272 tgtctctcag cagctgttcc cagggaagcag ctcccttctg gcacatgggg gctgggcaca 720
273 atagcccaaa aggggtcaaaa actgggacaa gcttgcaaaa aactctgtgs cccaaaaaaa 780
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275 aatggg 846
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278 <211> LENGTH: 966
279 <212> TYPE: DNA
280 <213> ORGANISM: Homo sapiens
282 <220> FEATURE:
283 <221> NAME/KEY: misc_feature
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VERIFICATION SUMMARY

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L:14 M:270 C: Current Application Number differs, Wrong Format

L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
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L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
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L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/919,344

DATE: 08/08/2001

TIME: 11:04:22

Input Set : A:\543.app.txt

Output Set: N:\CRF3\08082001\I919344.raw

L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9